



We create chemistry

# Ceriax® 149.8 EC

Emulsifiable Concentrate  
FUNGICIDE (KIUAKUVU)

GUARANTEE (DHAMANA):

Fluxapyroxad 41.6 g/l  
Pyraclostrobin 66.6g/l  
Epoxyconazole 41.6 g/l

COMMERCIAL AND AGRICULTURAL CLASS  
(KUNDI LA KILIMO NA BIASHARA)

GROUP (KUNDI)	3	7	11	FUNGICIDE (KIUAKUVU)

Fungicide for the control of yellow rust, stem rust in wheat and leaf rust, net blotch in barley.

(Kiuakuvu cha kuzua 'yellow rust, stem rust' kwene ngano na 'leaf rust, net blotch' kwenye shayirii)

**Shelf life:** Two years from the date of manufacture in tightly sealed original unopened container under cool and dry storage conditions.

**(Maisha Rafuni:** Miaka miwili kutoka tarehe ya kutengenezwa ikiwa katika chombo chake maalum isipofunguliwa na ikwiekwa katika paalihi pakavu pasipo na joto jingi.)

In case of poisoning call Toll Free number 0800720021/0800730030 (24hrs).

(Wakati wa madharah piga nambari bila malipo 0800720021/0800730030 (Masaa 24).)

5 L

Net Content (Kipimo Kamili):

READ THE LABEL BEFORE USING  
KEEP LOCKED OUT OF REACH OF  
(SOMA KIBANDIKO CHILDREN  
CHA MAELEZO (WEKA MBALI NA  
KABLA YA KUTUMIA) WATOTO)

REGISTRATION NO. (NAMBARI YA  
USAJILI): PCPB(CR)1919

REGISTRANT / MANUFACTURER (MSAJILI /  
MTENGENEZAJI):  
BASF SE, GERMANY

AGENT (AJENTI):  
BASF EAST AFRICA LIMITED  
P.O. BOX 24271 - 00100  
NAIROBI  
TELEPHONE: +254 20 407-2000  
Email: info.eastafrika@baf.com

MANUFACTURING DATE:  
(TAREHE YA KUTENGENEZWA):

BATCH NUMBER:  
(NAMBARI YA FURUSHI):

EXPIRY DATE:  
(TUMIA KABLA YA):



® = Registered trademark of BASF (Alama ya biashara iliyosajiliwa ya BASF)



Protect to Provide  
Membership Number:  
Nambari ya Uenachama: AAK/220



HARMFUL  
(HUDHURU)



## Ceriax® 149.8 EC

### DIRECTIONS FOR USE:

Ceriax® 149.8 EC is an emulsifiable concentrate fungicide with systemic and translaminar properties for the preventive control of yellow rust, stem rust in wheat and leaf rust, net blotch in barley.

### MODE OF ACTION:

Xemium® (fluxapyroxad) is a systemic fungicide, member of the fungicide group succinate dehydrogenase inhibitors (SDHI) and the mode of action of fluxapyroxad at the molecular level is the inhibition of the enzyme succinate dehydrogenase (SDH), in the complex II in the mitochondrial electron transport chain. Through its inhibition of complex II, fluxapyroxad disrupts fungal growth by preventing energy production and also by eliminating the availability of the chemical building blocks for the synthesis of other essential cellular components.

The active ingredient pyraclostrobin is a fungicidal compound of the strobilurin group. It is active against fungal development stages both on the plant surface and within the tissues. The compound is absorbed by the leaf and has a translaminar action. Protective application prevents new infections predominantly by inhibiting spore germination. Post infection application of Pyraclostrobin leads to the rapid collapse of fungal structures already established on the leaf surface. The compound can also penetrate the leaf surface and is active against fungal structures that have developed within plant tissues. Pyraclostrobin is suitable for protective, curative and eradicative applications.

Pyraclostrobin acts by inhibition of the cytochrome bc<sub>1</sub> complex involved in the mitochondrial respiration chain: it blocks the transport of electrons, thus disrupting production of pathogen energy (ATP), which causes its death. It is a systemic fungicide with preventative and curative action.

The epoxiconazole blocks the sterol biosynthesis pathway at the level of the membrane of the fungus, which is the IBS: Inhibitors of the biosynthesis of sterols class I (IDM: Inhibitors De-methylation), family Triazoles. It is a systemic fungicide with preventative and curative action.

### MIXING INSTRUCTIONS:

1. Half fill the spray tank with clean water and start agitation.
2. Shake the products before opening and measure the required amounts and add into the spray tank. Fill the tank with clean water and continue agitation or recirculation.
3. Homogenize the spray wash by agitation (e.g. recirculation or stirring) during spraying.

## RATE OF APPLICATION / SPRAY INTERVAL

Crop	Pest	Rate	Remarks
wheat	Yellow Rust ( <i>Puccinia striiformis</i> ) Stem Rust ( <i>Puccinia graminis</i> )	0.8-1 L/ha or 80 ml – 100 ml per 20 L of water	Apply preventatively when crop is most susceptible or latest at very first disease symptoms, repeat at 3-4 weeks later depending on disease pressure.
Barley	Leaf Rust ( <i>Puccinia recondita</i> ) Net blotch ( <i>Pyrenophora teres</i> )	0.8-1 L/ha or 80 ml – 100 ml per 20 L of water.	A maximum of two applications can be done. Use Ceriax as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control. Ground Application: Apply in 200-400 L water per ha

All spray applications must be made with suitable equipment that is in good working order and correctly calibrated to give the desired coverage and crop canopy penetration for the particular method of application.

**RE-ENTRY INTERVAL:** 24 Hours, unless wearing protective clothing.

**PRE-HARVEST INTERVAL:** 35 days

### Resistance management:

To avoid the development of resistance and maintain the efficacy of Ceriax® 149.8 EC against diseases of barley and wheat, the following guidelines must be adhered to:

- Follow strict the manufacturer recommendation, do not reduce the dose rate below what is recommended on the label.
- Use Ceriax® 148.9 EC as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control. Use Ceriax® 149.8EC as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control.
- Do not exceed two applications of Ceriax® 49.8 EC per season.

FOR SPECIFIC INFORMATION ON RESISTANCE MANAGEMENT, CONTACT THE REGISTRATION HOLDER, BASF EAST AFRICA LTD.

## SAFETY PRECAUTIONS:

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Remove contaminated clothing and protective equipment before entering eating areas.

## **STORAGE:**

Store in original containers under cool dry conditions in secure well-ventilated buildings away from foodstuffs and animal feeds. Keep out of reach of children. Keep away from heat. Protect from direct sunlight

Protect from temperatures below: -5 °C, changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C, Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

## **WASTE DISPOSAL:**

On emptying the container, triple rinse thoroughly by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling. Perforate or puncture holes on empty containers and dispose off in accordance with National legislation and Regulation. DO NOT RE-USE empty containers for any other purpose.

## **LEAK AND SPILLS:**

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). For large amounts: Dike spillage. Pump off product. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

## **ENVIRONMENTAL HAZARDS:**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Avoid contamination via drains from farmyard and road.

## **FIRST AID MEASURES:**

**General advice:** First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

**If Inhaled:** Keep patient calm, remove to fresh air and seek medical attention.

**Skin contact:** Immediately wash thoroughly with soap and water, seek medical attention.

**Eye contact:** Immediately wash affected eyes for at least 15 minutes under running water, with eyelids open.

**Ingestion:** Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

**TAKE PATIENT TO DOCTOR.**

**TOXICOLOGICAL INFORMATION:**

**Signs and Symptoms of Poisoning:**

Harmful by inhalation and if swallowed, causes serious eye damage, suspected of causing cancer, suspected of damaging the unborn child, Suspected of damaging fertility.

**Antidote:** no known specific antidote.

**Note to physician:** Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

**In case of poisoning call Toll Free number 0800720021/0800730030 (24Hrs).**

**NOTICE TO USER:**

This pest control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use or store a pest control product under unsafe conditions.

**WARRANTY:**

Seller's guarantee is limited to the terms set out on the label and subject there, to the buyer who assumes the risks to persons or property arising from the use or handling of this product and accepts the product on that condition.

## Ceriax® 149.8 EC

### MAPENDEKEZO YA UTUMIAJI:

Ceriax® 149.8 EC ni kiuakuvu cha kuzuia 'yellow rust, stem rust' kwenye ngano na 'leaf rust, net blotch' kwenye shayiri.

### JINSI INAVYOFANYA KAZI

Xemium® (fluxapyroxad) ni mojawapo ya dawa ilio kwenye kikundi cha succinate dehydrogenase inhibitors (SDHI) na utendaji kazi wa fluxapyroxad katika molecular level ni kuzuia enzyme succinate dehydrogenase (SDH), pia inajulikana kama Complex II katika mitochondrial electron transport chain. Kwa ajili ya utendaji kazi wake, fluxapyroxad unawenza kuzuia ukuaji wa kuvu kwa kuzuia uzalishaji wa nishati na pia kwa kuondoa upatikanaji wa kemikalii muhimu.

Pyraclostrobin ni mojawapo ya dawa ilio kwenye kikundi cha strobilurin group, pyraclostrobin ni kiuakuvu na inazua upumuaji wa kuvu na kusimamisha ukuaji. Pyraclostrobin huwa inafyonzwa na jani na ina uhamaaji duni katika mmea kupitia kwa mkondo wa transpiration.

Pyraclostrobin ikitumika kabla ugonjwa kuanza unawenza kuzuia ukuaji wa kuvu. Unyuyizija wa Pyraclostrobin kabla maambukizi husababisha kuanguka haraka Kwa miundo vimelea vya kuvu kwenye juu ya uso jani. Pyraclostrobin ni kiuakuvu kinachowenza kuzuia na Kutiba magonjwa.

Epoxiconazole

Epoxiconazole (FRAC group 3) ni kiuu kuvu kilicho katika kikundi cha triazoles na kinafanyakazi kwa kusimamisha ukuaji wa seli ya kuvu. Epoxiconazole ina uwezo wa kuzuia ukuaji wa kuvu kabla na hata baada ya ugonjwa kuingia.

### MAELEZO YA KUCHANGANYA:

Jaza tanki la kunyuyizia na maji safi hadi nusu. Tingiza dawa vizuri kabla ya kuifungua kisha upime kiasi cha Abacus kinachohitajika na uongeze kwenye tanki la kunyuyizia. Jaza tanki hilo na maji safi na uendelee kuchanganya na kutikisa. Endelea kukoroga vizuri unaponyuyizia.

## KIPIMO CHA KUTUMIA/MUDA WA KURUDIA

Crop	Pest	Rate	Remarks
Ngano	Yellow Rust ( <i>Puccinia striiformis</i> ) Stem Rust ( <i>Puccinia graminis</i> )	Lita 0.8-1 kwa hekta au Millilita 80 -100 kwa lita ishirini ya maji	Nyonyiza Ceriax kabla ugonjwa kuanza au ukichelewa, iwe punde tu ugonjwa unapoanza. Rudia kila baada ya wiki 3-4 kulingana na dalili za ugonjwa kushika. Minyonyizo mivili yanawenza kufanywa kwa msimu.
Shayiri	Leaf Rust ( <i>Puccinia recondita</i> ) Net blotch ( <i>Pyrenophora teres</i> )	Lita 0.8-1 kwa hekta au Millilita 80 -100 kwa lita ishirini ya maji	Tumia Ceriax na pia ukichanganya na njia zingine za kudhibiti magonjwa. Tumia lita 200-400 za maji kwa hekta

Shughuli yote ya unyunizaji lazima yatengenezwe na vifaa vinavyofaa ambavyo viko  
katika halii nzuri ya kufanya kazi na vilivyo sanifiwa kwa usahihi ili kutoa dawa inayotakiwa  
kupata matokeo bora.

**MUDA WA KUNGOJA KABLA KUINGIA MAHALI PALIPONYUNYIZIWA DAWA:**  
Masaa 24, ama ukiwa na mavazi ya kujikinga

### MUDA WA KUNGOJA KABLA YA KUVUNA: Siku 35

#### Kuzuia Uzoefu wa Kuvu:

Ceriax® 149.8 EC itumike kwa mujibu wa maelekezo kwa ajili ya matumizi kwa  
magonjwa lengo katika hali unaohitajika. Tumia Ceriax® 149.8 EC kama sehemu ya  
'Integrated Crop Management' huku ukitumia njia nyngine ya kudhibiti. Usinyonyize  
Ceriax® 49.8 EC zaidi ya mara mbili kwa mfululizo la nia na dawa zilizo katika kikundi  
kimoja cha Ceriax®. KWA MAELEZO MAALUM KUHUSU UVUMILIVU WA MMEA,  
WASILIANA NA WASAJILI HOLDER, BASF EAST AFRICA LTD

#### TAHDHARI KWA MTUMIAJI:

Hakuna mikakati maalum muhimu itahitajika kama dawa itahifadhiwa na kubebwa  
kwa usahihi. Hakikisha uingizaji hewa kina wa ghala na maeneo ya kazi. Unapotumia  
dawa linda macho ukitumia miwani iliyopendekezwa, vaa nguo za kujikinga kama vile  
glavu na ovaroli. Osha mikono na ngozi iliyomwagikiwa kabla ya kula, kunywa, kuvuta  
sigara ama kwenda kwa haja. Oga mwili na sabuni na maji mengi baada ya kazi na ufue  
nguo za kujikinga na madhara ya dawa kabla ya kuzitumia tena.

### KUHIFADHI:

Hifadhi dawa ndani ya pakiti yake halisi mahali ambapo ni salama, kavu, na hakuna joto nyingi, penye hewa nyingi na ni mbali na chakula na watoto hawawezi kufikia. Hifadhi mahali palipo na joto isiyo chini ya nyuzi -5 au zaidi ya nyuzi 40.

### KUTUPA MABAKI:

Osha chombo cha dawa mara tatu na umwage ule mwosho kwenye tanki la kunyunyizia. Haribu chombo cha dawa kwa kutoboa mashimo baada ya kuitumia dawa yote iliyomo halafu itupe mahali pazuri mbali na mito kuambatana na sheria zilizoko kwenye nchi. USITUMIE KWA MATUMIZI INGINE.

### DAWA IKIMWAGIKA:

Jikinge na nguo na vifaa vya kuzuia madhara ya dawa. Panguza dawa iliyomwagika na mchanga au vumbi inayopatikana wakati mbaao inapopasuliwa (sawdust). Osha mahali au vifaa vilivymwagikiwa na dawa kwa maji mengi na sabuni.

### HADHARI KWA MAZINGIRA:

Dawa hii Ina madhara kwa samaki na viumbe vingine vinavyoishi kwenye maji. Usichafue vidimbwi vya maji kwa dawa hii au mabaki yake. Usimwage dawa kwenye udongo. Usioshe vyombo vilivytumika karibu na mito. Usimwage mabaki kwenye nyumba za wanyama au barabara.

### HUDUMA YA KWANZA:

**Mashauri:** Wafanyakazi huduma ya kwanza lazima wawe makini kwa usalama wao wenye. Kama mgonjwa ana uwenzezekano wa kupoteza fahamu, mweke mhadhiriwa akiiegemea upande. Vua mavazi yenye dawa mara moja.

**Ikiwa imeingizwa:** Weka mgonjwa atulie, mueke kwenye hewa safi na utafute matibabu.

**Kushikwa kwa Ngozi:** Mara moja safisha vizuri kwa sabuni na maji, tafuta matibabu.

**Kushikwa kwa Macho:** Osha macho yaliyoathirwa kwa muda wa dakika 15 chini ya maji ya kukimbia na kope la jicho likifunguliwa wazi.

**Kumeza:** Mara moja suuza mdomo na kisha kunywa millilita 200-300 ya maji, tafuta matibabu.

### PELEKA MJERUHI KWA DAKTARI.

### MAELEZO KUHUSU SUMU:

**Dalili za kusumika:** Inaweza sababisha madhara kwa kuvuta pumzi na ikimezwu, hatari ya madhara makubwa kwa macho, Inashukiwa kusababisha kansa, inaweza kusababisha madhara kwa mtoto aliye tumboni, inashukiwa kuharibuu uzazi.

**Kiuasumu:** Hakuna tiba ijulikanayo kwa sasa.

**Maagizo kwa daktari:** Matibabu: Tibu kufuatia dalili (njia ya kuondoa kemikali, viungo muhimu). Hakuna tiba ijulikanayo.

**Wakati wa madhara piga nambari bila malipo 0800720021/0800730030  
(Masaa 24).**

**ILANI KWA WATUMIAJI:**

Dawa hii sharti itumiwe kulingana na maagizo kwenye kibandiko hiki tu. Ni hatia chini ya Sheria za madawa ya kuangamiza wadudu waharibifu kutumia au kuweka dawa hii mahala pasipo usalama.

**THIBITISHO:**

Dhamana ya Muuzaji ni maelezo yaliyo kwenye kibandiko ambayo ni lazima yafuatwe kikamilifu. Mnunuzi lazima akubali hatari zozote zinaweza kutohana na matumizi ya dawa hii kwa binadamu au mali na lazima aikubali dawa hii katika hali hiyo.



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5 L

WHO Class II: Moderately Hazardous

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HARMFUL  
(HUDHURU)

